Recombinant Human PRKAR1B, His-tagged

Cat. No. PRKAR1B-7015H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PRKAR1B was expressed in Sf9 insect cells using a C-terminal His tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	PRKAR1B is the type I-beta regulatory subunit of cyclic AMP-dependent protein kinase A (PKA) which is an essential enzyme in the cAMP signaling pathway. PKA holoenzyme is composed of 2 regulatory and 2 catalytic subunits and dissociates from the regulatory subunits upon binding of cAMP. PKA controls many biochemical events in the cell including regulation of metabolism, ion transport, and gene transcription. PKA undergoes a dramatic conformational change upon complex formation with the catalytic subunit. PRKAR1B subunits can dimerize through an N-terminal motif and this dimerization is necessary for binding to PKA anchoring proteins (AKAPs) and targeting of PKA to its site of action.
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Molecular Mass	~52 kDa
Purity	>90%

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Applications	Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.2 μg/μl

GENE INFORMATION

Gene Name	PRKAR1B protein kinase, cAMP-dependent, regulatory, type I, beta [Homo sapiens]
Official Symbol	PRKAR1B
Synonyms	PRKAR1B; protein kinase, cAMP-dependent, regulatory, type I, beta; cAMP-dependent protein kinase type I-beta regulatory subunit; PRKAR1;
Gene ID	5575
mRNA Refseq	NM_001164758
Protein Refseq	NP_001158230
MIM	176911
UniProt ID	P31321
Chromosome Location	7pter-p22
Pathway	Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Aquaporin-mediated transport, organism-specific biosystem; Ca-dependent events, organism-

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	specific biosystem; CaM pathway, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Calmodulin induced events, organism-specific biosystem;
Function	cAMP binding; cAMP-dependent protein kinase regulator activity; nucleotide binding;

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